

Title (en)

ELECTRODE FOR REDOX FLOW BATTERY, FABRICATION METHOD THEREOF, APPARATUS AND METHOD FOR FABRICATING ELECTROLYTE FOR REDOX FLOW BATTERY, DEVICE AND METHOD FOR MEASURING SELECTED ION CONCENTRATION OF ELECTROLYTE, AND STAND-ALONE BATTERY SYSTEM

Title (de)

ELEKTRODE FÜR EINE REDOX-DURCHFLUSSBATTERIE, HERSTELLUNGSVERFAHREN DAFÜR, VORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG EINES ELEKTROLYTS FÜR DIE REDOX-DURCHFLUSSBATTERIE, VORRICHTUNG UND VERFAHREN ZUR MESSUNG EINER AUSGEWÄHLTEN IONENKONZENTRATION DES ELEKTROLYTS UND EIGENSTÄNDIGES BATTERIESYSTEM

Title (fr)

ÉLECTRODE DESTINÉE À UNE BATTERIE À CIRCULATION REDOX, SON PROCÉDÉ DE FABRICATION, APPAREIL ET PROCÉDÉ PERMETTANT DE FABRIQUER UN ÉLECTROLYTE POUR UNE BATTERIE À CIRCULATION REDOX, DISPOSITIF ET PROCÉDÉ PERMETTANT DE MESURER LA CONCENTRATION IONIQUE SÉLECTIONNÉE DE L'ÉLECTROLYTE, ET SYSTÈME DE BATTERIES AUTONOMES

Publication

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Application

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- KR 20100116813 A 20101123
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Abstract (en)

[origin: EP2642572A2] The present invention relates to a redox flow battery and a redox battery system, and more particularly, to an electrode constituting a redox flow battery, a method of fabricating the electrode, an apparatus and method for fabricating electrolyte for a redox flow battery, a device and method for measuring a selected ion concentration of electrolyte constituting a redox flow battery, and a stand-alone redox battery system. A stand-alone redox battery system according to the present invention includes a micro hydroelectric power generating device and a redox battery. The micro hydroelectric power generating device includes: a feathering paddle wheel that is rotated by water introduced through a conduit; and a direct current generator that generates direct current according to the rotation of the feathering paddle wheel. The redox battery includes: a stack-type electrode assembly having a stacked structure of unit electrodes; a first electrolyte tank and a second electrolyte tank, which store, respectively, active materials having different oxidation levels; and a first pump and a second pump, which are connected to the first electrolyte tank and the second electrolyte tank, respectively, to circulate the stored active materials through the stack-type electrode assembly, thereby performing charging and discharging operations.

IPC 8 full level

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Citation (search report)

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